

Work Order ID 134048

134048

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June-25-15 1:46:26 PM

Item ID: D412-761-112

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Wiring Harness Required 412

Start Date: 6/25/15

Start Qty: 100

1

Cust Item ID:

Required Date: 7/08/15

Req'd Qty: 100

1

Customer:

Reference:

Approvals:

Process Plan

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr

Revision Nbr

D412-761-112

B

100

0.00

100

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile and create labels as per PPP D412-761-112 chg 001

105

0.00

105

Purchasing

Memo

0.00

Purchasing

ISSUE P/O: 28952
POSSIBLE SUPPLIER:EAGLE
C OF C REQUIRED

u 15.06.25

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Memo

0.00

Packaging

2x 8015-07-23

Work Order ID 134048

134048

Page 2

June-25-15 1:46:26 PM

Item ID: D412-761-112 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Wiring Harness Required 412
 Start Date: 6/25/15 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 7/08/15 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC5- Inspect part completeness to step on W/O	0.00							DAS 38 9-89
120						(2)			
QC	Memo	0.00							
Quality Control									JUL 24 2015

130		0.00							
130									
Packaging	Memo	0.00							DAS 6 9-89
Packaging	Identify and pack for shipping as per PPP D412-761-112								
	Location: _____								
	PPP Rev: _____								JUL 24 2015

140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									JUL 24 2015

MCS JUL 24 2015

July-02-15 11:38:45 AM

134048

D412-761-112

Required Date: 7/08/15

Required Qty: 2.00

Comments: IPP Rev:C 13.01.15 as per ECN13-511 DD Verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D412-761-112P		Purchased	No				Each	0.0000		2			
D412-761-112P										**	2x 805-07-23		
Wiring Harness Required 412													
LED-40-17-HK-35402		Purchased	No				Each	0.0000		2			
I FD-40-17-HK-35402										**	M132783		
Annunciator (Master Caution)													
LED-40-17-HK-E05HM		Purchased	No				Each	0.0000		2			
I FD-40-17-HK-E05HM										**	M132783		
Annunciator (Engine, Fire 1)													
LED-40-17-HK-E05HN		Purchased	No				Each	0.0000		2			
I FD-40-17-HK-E05HN										**	M132783		
Annunciator (Engine, Fire 2)													

LIST OF MATERIALS			
1	AR	MS3471L10-6P	CONNECTOR, RECEPTACLE (5M7J1/8J1)
2	AR	M39029/4-110	CONTACTS, PINS
3	AR	M85049/52S-10N	BACKSHELL
4	AR	MS3476L10-6S	CONNECTOR, PLUG (5M7P1A)
5	AR	M39029/5-115	CONTACTS, SOCKETS
6	AR	MS3471L8-33P	CONNECTOR, RECEPTACLE (5M7J3)
7	AR	M85049/52S-8N	BACKSHELL
8	AR	MS3476L8-33S	CONNECTOR, PLUG (5M7P3A)
9	AR	MS3471L8-33PW	CONNECTOR, RECEPTACLE (5M7J2)
10	AR	MS3476L8-33SW	CONNECTOR, PLUG (5M7P2A)
11	AR	MS3471L12-10P	CONNECTOR, RECEPTACLE (5M8J1)
12	AR	M85049/52S-12N	BACKSHELL
13	AR	MS3476L12-10S	CONNECTOR, PLUG (5M8P1A)
14	AR	MS3471L12-10PW	CONNECTOR, RECEPTACLE (5M8J2)
15	AR	MS3476L12-10SW	CONNECTOR, PLUG (5M8P2A)
16	1	LED-40-17-HK-35402	ANNUNCIATOR (MASTER CAUTION)
17	1	LED-40-17-HK-E05HM	ANNUNCIATOR (ENGINE FIRE 1)
18	1	LED-40-17-HK-E05HN	ANNUNCIATOR (ENGINE FIRE 2)
19	3	18-200	QUICK-CONNECTOR, PLUG
20	1	MS3474W20-41P	CONNECTOR, RECEPTACLE (J1008)
21	1	MS3476W20-41S	CONNECTOR, PLUG (P1008)
22	2	M85049/52S-20W	BACKSHELL
23	AR	MS3475L10-6S	CONNECTOR, PLUG (5M8P1A)
24	AR	MS3471L10-6PW	CONNECTOR, RECEPTACLE (5M8J2)
25	AR	MS3475L10-6SW	CONNECTOR, PLUG (5M8P2A)
26	AR	MS27474T8B-35P	CONNECTOR, RECEPTACLE (5M8P3)
27	AR	M39029/58-380	CONTACTS, PIN
28	AR	M85049/49-2-08W	BACKSHELL
29	AR	MS27484T8B-35S	CONNECTOR, PLUG (5M8P3A)
30	AR	M39029/57-354	CONTACTS, SOCKET
31	1	D3705-11	INSTRUMENT FACE PLATE
32	1	18-258	PANEL PLUG, BLACK

NEW WIRE / UNIT

EXISTING WIRE / UNIT

NOTES:

- ALL NEW UNSHIELDED WIRE USE M22759/41-xx-9 TYPE WIRE UNLESS OTHERWISE SPECIFIED.
- ALL NEW TWISTED SHIELDED CABLE USE M27500-xxSMxT23 TYPE CABLE UNLESS OTHERWISE SPECIFIED.
- ALL WIRES 22 AWG UNLESS OTHERWISE SPECIFIED.
- IDENTIFY/CODE ALL WIRES AND CABLES IN ACCORDANCE WITH BHT-ELEC-SPM CHAPTER 3.
- KEEP ALL JUMPERS, SHIELD GND'S AND LOGIC STRAP WIRES AS SHORT AS POSSIBLE.
- KEEP ALL POWER AND CHASSIS GROUND WIRES AS SHORT AS POSSIBLE.
- ALL SPLICES MUST CONFORM TO MIL-S-81824, OR EQUIVALENT AND BE INSTALLED IN ACCORDANCE WITH BHT-ELEC-SPM CHAPTER 4.
- ALL TERMINALS TO BE INSTALLED IN ACCORDANCE WITH BHT-ELEC-SPM CHAPTER 4.
- ALL ELECTRICAL GROUNDING AND BONDING TO BE CARRIED OUT PER BHT-ELEC-SPM CHAPTER 8.
- PROVIDE SEPARATE GROUND STUD LOCATIONS FOR DC POWER GROUNDS, AC POWER GROUNDS, CHASSIS GROUNDS, SIGNAL GROUNDS AND SHIELD GROUNDS.
- ALL CONNECTORS TO BE INSTALLED IN ACCORDANCE WITH BHT-ELEC-SPM CHAPTER 5.
- ENSURE ALL UNUSED CONNECTOR CONTACTS ARE FILLED WITH SPARE PINS/ SOCKETS OR PLASTIC GROMMET SEALING PLUGS.
- ROUTE ALL WIRES AND CABLES WITH EXISTING WIRE AND CABLE RUNS IN ACCORDANCE WITH BHT-ELEC-SPM CHAPTER 5.
- REMOVE INDICATOR FROM CO-PILOTS INSTRUMENT PANEL AND INSTALL IN VERTICAL REFERENCE DOOR.
- A DOT (•) BEFORE A CONNECTOR CONTACT LETTER DENOTES LOWER CASE.
- IT IS PERMISSIBLE TO RUN WIRES W11D22 AND W01CC22 TO TERMINAL BLOCK 27TB1 INSTEAD OF SPLICING AS SHOWN.

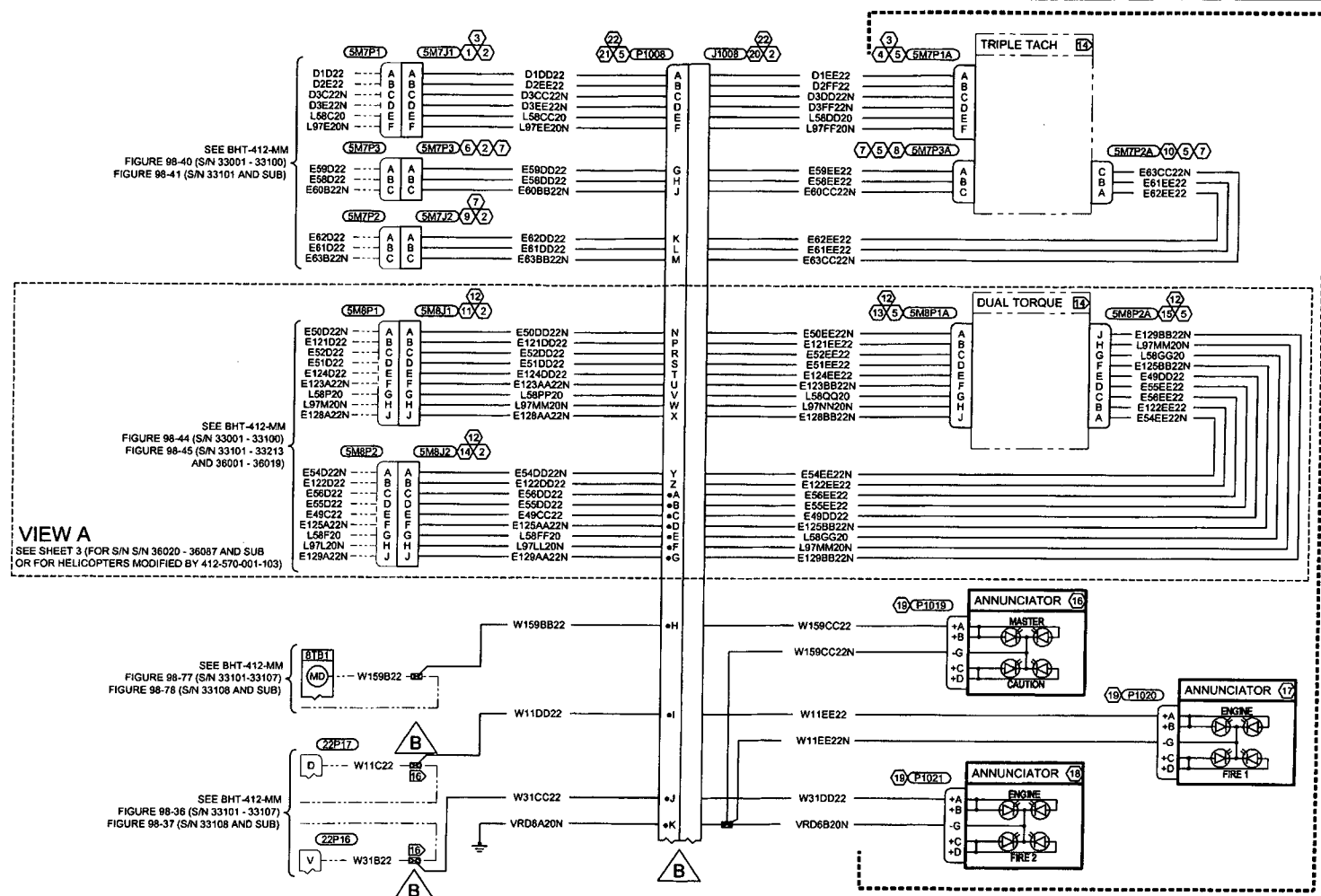
B	CHANGED PIN DESIGNATIONS AT P/J1008	DJR	12.03.21
A	NEW ISSUE	KB	08.11.06
REV.	DESCRIPTION	BY	DATE
DESIGN	KB		
DRAWN	MB		
CHECKED	KB		
MFG. APPR.	GR		
APPROVED	MB		
DE APPR.	MB		
DATE	12.03.21		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. REV. B
D412-761-112 SHEET 1 OF 3
TITLE SCALE
VRD - REQUIRED WIRING NTS

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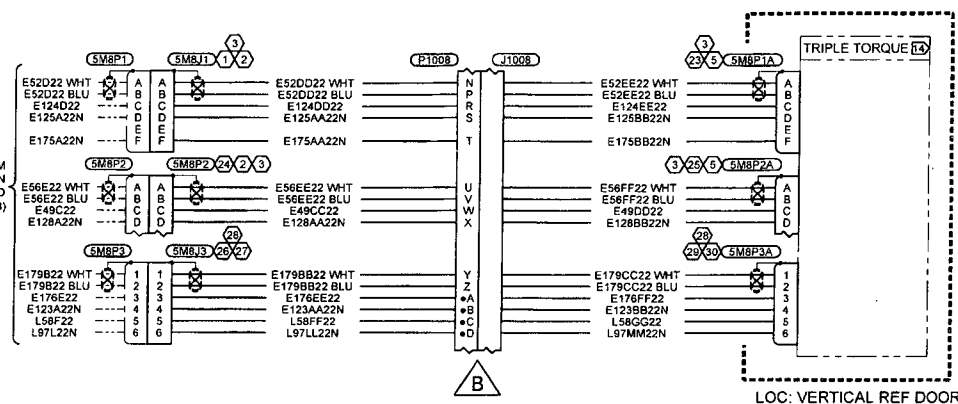
8 7 6 5 4 3 2 1



ELECTRICAL WIRING DIAGRAM
BELL MODEL 412 (S/N: 33101 THROUGH 36087 AND SUB)
PART NUMBER: D412-761-112

DESIGN	JB	DART AEROSPACE LTD	
DRAWN	JB	HAWKESBURY, ONTARIO, CANADA	
CHECKED	JB	DRAWING NO.	REV. B
MFG. APPR.	GR	D412-761-112	SHEET 2 OF 3
APPROVED	JB	TITLE	SCALE
DE APPR.	JB	VRD - REQUIRED WIRING	NTS
DATE	12.03.21	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

SEE BHT-412-MM
FIGURE 08-46 (S/N
36020 - 36087 AND
SUB)



VIEW A B8-2

TRIPLE TORQUE INDICATOR
BELL MODEL 412 (S/N: 36020 THRU 36087 AND SUB)
PART NUMBER: D412-761-112

DESIGN	KB	DART AEROSPACE LTD	
DRAWN	DK	HAWKESBURY, ONTARIO, CANADA	
CHECKED	KB	DRAWING NO.	REV. B
MFG. APPR.	GR	D412-761-112	SHEET 3 OF 3
APPROVED	JK	TITLE	SCALE
DE APPR.	JK	VRD - REQUIRED WIRING	NTS
DATE	12.03.21	COPYRIGHT © 2008 BY DART AEROSPACE LTD	
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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO28952**

Purchase Order Date 6/25/2015

PO Print Date 6/25/2015

Page Number 1 of 2

Order From :

VU-EAG002

Ship To : DART AEROSPACE LTD

EAGLE COPTERS MAINTENANCE LTD.
823 MCTAVISH ROAD N E
CALGARY, AB T2E 7G9
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Handwritten signature/initials

Contact Name

Vendor Phone 403-250-7370

Buyer

Linda Lacelle

Customer POID

Customer Tax #

10127-2607

Ship To Contact

Terms

Net 30

Ship To Phone

Currency

USD

Ship Via:

FOB

Destination-Collect

Ship Acct:

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Line Comments		Promise Date				
	Delivery Comments						
1	D412-761-112P	Wiring Harness Required 412	7/8/2015		2.00	\$3,700.00	\$7,400.00
			Yes		Each		
			7/8/2015				
	per drwg b134048						

Line Total: \$7,400.00

2	D212-761-213P	Wiring Harness	7/8/2015		1.00	\$3,728.92	\$3,728.92
			Yes		Each		
			7/8/2015				
	per drwg b134047						

Line Total: \$3,728.92

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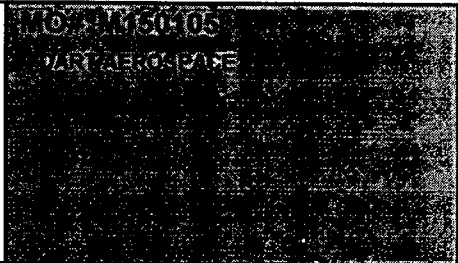
Note:

6/25/2015

CERTIFICATE OF CONFORMITY

Eagle Copters Maintenance Ltd.

823 McTavish Rd. NE
 Calgary, AB T2E 7G9
 CANADA
 Ph: 403-250-7370, Fax: 403-250-7110
 kcopiak@eaglecopters.com



18-200 Quick Connector
 LED-40-17-HK-35402 Annunciator, Master Caution
 LED-40-17-HK-E05HM Annunciator, Engine Fire 1
 LED-40-17-HK-E05HN Annunciator, Engine Fire 2
 M22759/41-20-9 Wire, 20 AWG
 M22759/41-22-9 Wire, 22 AWG
 M81824/1-1 Splice, Red
 M85049/52S-10N Backshell
 M85049/52S-12N Backshell
 M85049/52S-20W Backshell
 M85049/52S-8N Backshell
 MS3471L10-6P Connector, Recptacle
 MS3471L12-10P Connector, Recptacle
 MS3471L12-10PW Connector, Recptacle
 MS3471L8-33P Connector, Recptacle
 MS3471L8-33PW Connector, Recptacle
 MS3474W20-41P Connector, Receptacle
 MS3476L10-6S Connector, Plug
 MS3476L12-10S Connector, Plug
 MS3476L12-10SW Connector, Plug
 MS3476L8-33S Connector, Plug
 MS3476L8-33SW Connector, Plug
 MS3476W20-41S Connector
 XPF-1/2 EXPANDABLE SLEEVING, BLACK
 XPF-1/4 EXPANDABLE SLEEVING, BLACK
 XPF-3/4 EXPANDABLE SLEEVING, BLACK, 3/4"
 XPF-3/8 EXPANDABLE SLEEVING, BLACK

Part No.	Description	QTY	REV	DATE	BY	Control No.	Cart No.
D412-761-112P ✓	VRD Harness	FN	2	EA	1	2068	

S015-07-23

We hereby certify that the parts in this shipment conform with applicable specifications and that documentation and/or data is on file and available for examination.

Signed: _____

For and on behalf of Eagle Copters Maintenance Ltd.



Inspectors Stamp